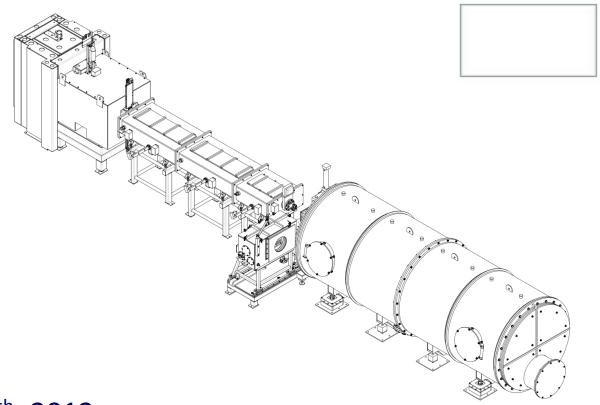
10 m SANS Instrument Installation Update



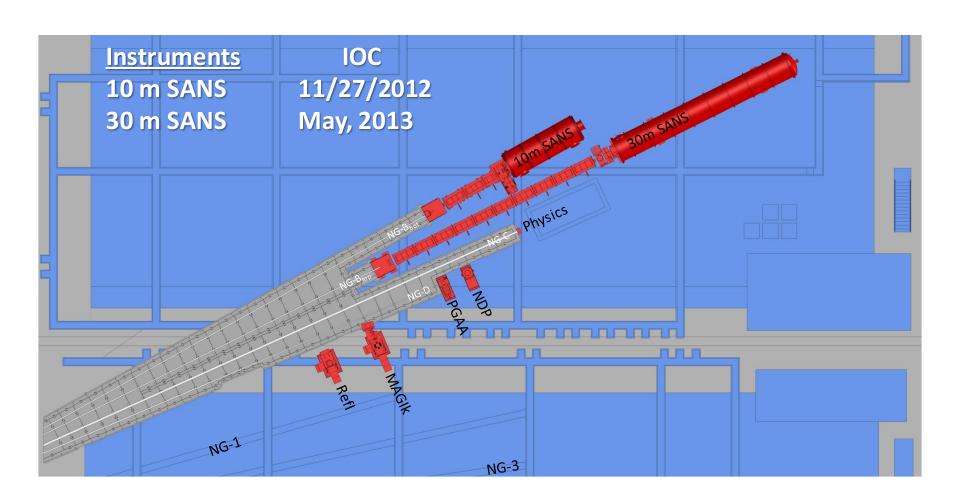
June, 4th, 2012 John Barker NIST Center for Neutron Research



10 m SANS Installation

- Outline
 - Instrument Layout
 - Schedule
 - Status Update of Current Work

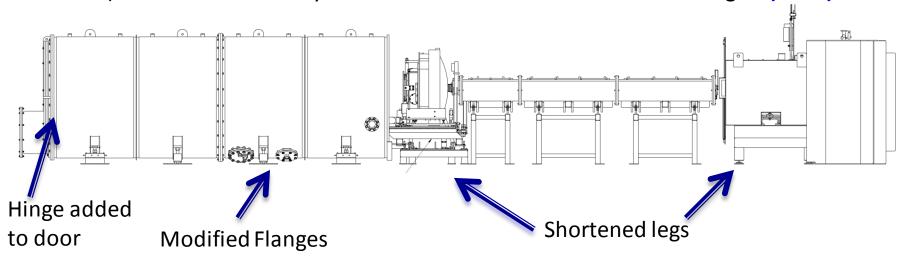






Finished Preassembly Tasks:

1) Lower instrument by 35 mm to accommodate lower beam height. (done)



- 2) Add hinge to rear door for quick access-(done)
- 3) Cabling of motors and testing (done)
- 4) Electronic System hardware (Viper, ICE, computers) + testing (done)



Future Milestones

- Vacuum Test vSANS Detector Panels
- Testing of NICE Data Acquisition Software
- Install Guides B_B, B_T, C and D in G100
- Install and align velocity selector, guides, vessels
- Final install Electrical (Plant)
- Final install Chilled water + compressed Air
- Reconnection and Testing of Elec. Cabling
- Final Instrument testing → IOC

July, 2012 (20 days)

Jun-Dec 2012 (120 days)

April-Oct, 2012

Oct 26 (10 days)

Nov 9, (10 days)

Nov 9, (3 days)

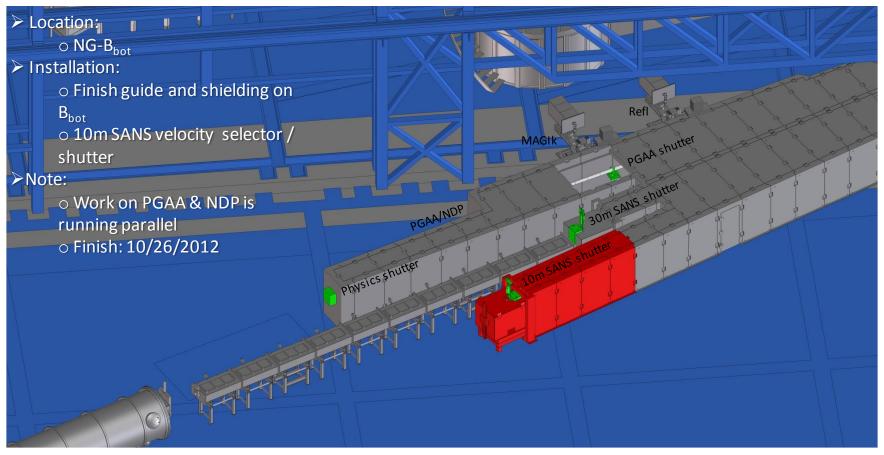
Nov 9, (10 days)

Nov 27, 2013 (10 days)



Status: 10/26/2012

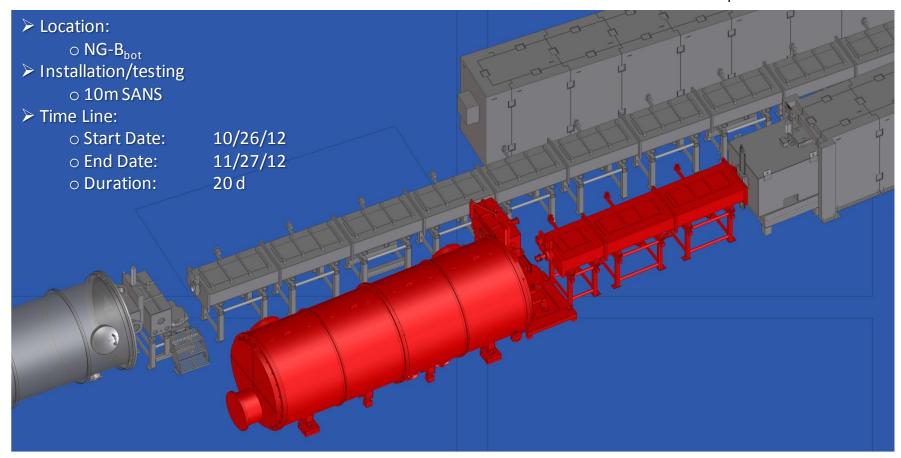
Note: 30 m SANS not yet installed as shown on guide B_{top}





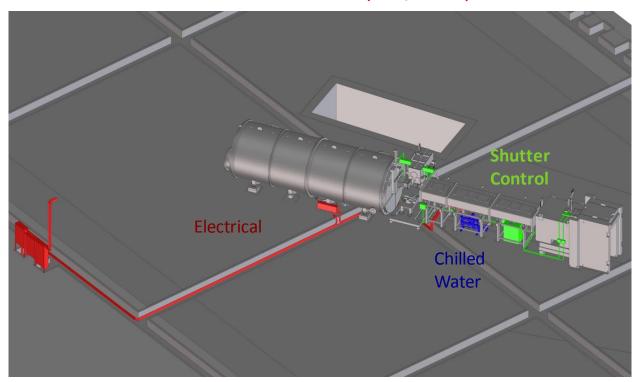
Initial Operating Condition (IOC): 11/27/2012

Note: 30 m SANS not yet installed as shown on guide B_{top}





Electrical Installation: west view (Oct, 2012)





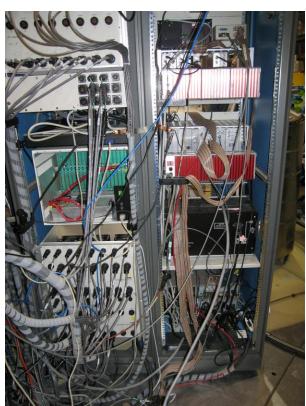
Most electronics from 30 m SANS simply replicated on 10 m SANS

Viper + VME crate (done)

All new cables (done)

Velocity Selector control upgrade (in process)







Outstanding Issues / Risks:

Coordinating Work within RFO + Plant // Finishing of Guide B_L
Risk mitigation:

RFO holding biweekly 10-m SANS commissioning meetings

Repairing bearings/housing to velocity selector (#3):

Ongoing work with Mech. Engineer + Mech. Technician

• Testing of new Selector Controller:

Ongoing work with Elec. Engineer

